LEUPOLD

AMERICA'S OPTICS AUTHORITY®

RIFLEMAN BALLISTICS AIMING SYSTEM® SUPPLEMENT

The Leupold Ballistics Aiming System — Rifleman Ballistics Reticle™

To use the Rifleman Ballistics Reticle™, zero your rifle at either 200 yards for Group A cartridges or at 300 yards if your rifle is chambered for one of the Group C cartridges from the Rifleman Ballistics Reticle™ table below. If you are using a Group A cartridge, this will make the dots below the horizontal crosswire be zeroed for 300, 400, and 500 yards. If you are using a Group C cartridge, this will make the dots below the crosswire be zeroed for 400, 500, and 600 yards. The scope must then be set to its highest magnification setting to properly use the ballistics compensation features.

Rifleman Ballistics Reticle™ Cartridge List

GROUP A (High Magnification, 200 yard zero)		
Caliber	Bullet Wt.	Velocity
.223 Remington	40	3800 fps
.22-250 Remington	55	3650 fps
.243 Winchester	100	2900 fps
.25-06 Remington	100	3200 fps
.25-06 Remington	120	3000 fps
.270 Winchester	130	3050 fps
.270 WSM	150	3120 fps
.280 Remington	140	3000 fps
7mm Remington Mag	150	3050 fps
.30-06 Springfield	150	3000 fps
.300 WBY Mag	180	3100 fps
.300 Winchester Mag	180	2950 fps
.300 WSM	180	2950 fps
.338 Winchester Mag	200	2950 fps
.338 RUM	250	2900 fps

(35-45 inches of drop at 500 yards)

GROUP C (High Magnification, 300 yard zero)		
Caliber	Bullet Wt.	Velocity
.270 WSM	130	3275 fps
.300 WSM	150	3300 fps
.300 Winchester Mag	150	3300 fps
7mm WSM	140	3225 fps
7mm STW	140	3325 fps
7mm RUM	140	3450 fps
7mm RUM	160	3250 fps
.30-.378 WBY	180	3400 fps
.300 RUM	180	3400 fps
.270 Weatherby	130	3200 fps
7mm Remington Mag	150	3100 fps
.300 WBY Mag	150	3375 fps

(Less than 35 inches of drop at 500 yards)

Rifleman Ballistics Reticle™
3-9x Models

Reticle Feature	MOA @ High X	MOA @ Low X
Fine Line Width (Line Width)	0.32	0.84
Heavy Line Width (Thick Section)	0.97	2.56
Picket to Picket Space (Thin Opening)	15.24	40.19
Dot Diameter	0.95	2.51
300 Yard Dot (Distance from Center)	2.19	5.77
400 Yard Dot (Distance from Center)	4.80	12.66
Center to Bottom Picket Tip Spacing (500 Yards)	7.82	20.62

CONCLUSION

- Choose the appropriate ballistics group
- Sight-in at the distance required by that group (this may be done at any magnification setting)
- Adjust the magnification to the highest setting before using any of the long range hold points

Another Way to Sight-In

If you are using a Rifleman Ballistics Reticle™ with a cartridge that does not appear in one of the accompanying cartridge charts, the following method will provide you with a quick and easy way to sight-in.

1. Initially, sight-in at 200 yards. Your point of impact needs to match your point of aim exactly at the 200 yard intersection of the reticle.
2. Using a larger target, place the target at a 500 yard distance and shoot a group while aiming with the 200 yard intersection; your bullets will strike significantly (in some instances 60 inches or more) below the center.

3. Using a black marker, circle the group of bullet holes and fill in the circle. This will create a large black dot representing the bullet impact on the target that should be visible from the firing line.
4. While maintaining the same point of aim (hold in the center of the target with the 200 yard intersection) adjust the magnification setting until the 500 yard holdover mark points to the middle of the large black dot created with the black marker. This will create a situation where the scope is dead on at 200 yards and at 500 yards. Any variances at 300, 400, and 450 will be quite negligible.

In order to use any of the hold points accurately, the scope will need to be used on the exact magnification used to align the 500 yard mark with the center of the black dot.

Ballistics Aiming System® Development Team

Leupold & Stevens, Inc., worked with a diverse, highly skilled group of hunters and shooters to develop the new Ballistics Aiming System®, which includes the Boone and Crockett™ Big Game Reticle, the Varmint Hunter's™ Reticle, the LR Duplex® Reticle, the LRV Duplex® Reticle, and the SAbot Ballistics Reticle. Special thanks to: outdoor writer, ballistics consultant, and lifelong varmint hunter Steve Timm; the Boone and Crockett Club® staff; Tim Lesser, antelope, deer, elk and varmint guide, and Marketing Communication Specialist. Tim is a valued employee of Leupold & Stevens, Inc. Again, thanks to each of you, and the entire Ballistics Aiming System® development team, for your efforts. They have truly paid off.

Notes

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PART # 66429
ARTWORK # 66368